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In Re Application of:

Eric M. FERREIRA et al. (I.P.E.)

Serial No.: 10/091,372

Group Art Unit: 1754

Filing Date: March 4, 2008

Examiner: Unassigned

Title: METHODS AND COMPOSITIONS FOR ENANTIOSELECTIVE OXIDATION REACTIONS

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
Washington, DC 20231

Sir:

This is an Information Disclosure Statement submitted for the Examiner's consideration.

Applicants respectfully request that the Examiner review and make of record the references identified below.

A PTO-1449 form listing the references accompanies this paper. Applicants would appreciate the Examiner's initialing and returning the form to indicate that the references have been reviewed and made of record. The references are as follows:

NONPATENT DOCUMENTS
Ait-Mohand et al. (1995), "Palladium(II)-Mediated Oxidation of Alcohols Using 1,2-Dichloroethane as Pd(0) Reoxidant," <i>Tetrahedron Letters</i> 36(14):2473-2476.
Blackburn et al. (1977), "Homogeneous Catalytic Oxidation of Secondary Alcohols to Ketones by Molecular Oxygen Under Mild Conditions," <i>J. Chem. Soc. Chem. Commun.</i> , pp. 157-158.
Hashiguchi et al. (1997), "Kinetic Resolution of Racemic Secondary Alcohols by Ru ^{II} -Catalyzed Hydrogen Transfer," <i>Angew. Chem. Int. Ed. Engl.</i> 36(3):288-290.
Jensen et al. (2001), "Palladium-Catalyzed Enantioselective Oxidations of Alcohols Using Molecular Oxygen," <i>J. Am. Chem. Soc.</i> 123(30):7475-7476.
Nagashima et al. (1981), "Activation of Polyhaloalkanes by Palladium Catalyst. Palladium Catalyzed Oxidation of Alcohols to Carbonyl Compounds with Carbon Tetrachloride," <i>Chemistry Letters</i> , pp. 1171-1172.
Nishimura et al. (1999), "Palladium(II)-Catalyzed Oxidation of Alcohols to Aldehydes and Ketones by Molecular Oxygen," <i>J. Org. Chem.</i> 64(18):6750-6755.
Peterson et al. (1998), "Palladium-Catalyzed Oxidation of Primary and Secondary Allylic and Benzylic Alcohols," <i>J. Org. Chem.</i> 63(10):3185-3189.
Rychnovsky et al. (1996), "Enantioselective Oxidation of Secondary Alcohols Using a Chiral Nitroxyl (N-Oxoammonium Salt) Catalyst," <i>J. Org. Chem.</i> 61(4):1194-1195.
Smidt (1962), "Oxidation of Olefins with Palladium Chloride Catalysts," <i>Chemistry and Industry</i> , pp. 54-61.

NONPATENT DOCUMENTS

Smidt et al. (1959), "Katalytische Umsetzungen von Olefinen an Platinmetall-Verbindungen," *Angew. Chem.* 71(5):176-182.

Smidt et al. (1962), "The Oxidation of Olefins with Palladium Chloride Catalysts," *Angew. Chem. Internat. Edit. Engl.* 1(2):80-88.

Stahl et al. (2001), "Oxygenation of Nitrogen-Coordinated Palladium(0): Synthetic, Structural, and Mechanistic Studies and Implications for Aerobic Oxidation Catalysis," *J. Am. Chem. Soc.* 123(29):7188-7189.

Steinhoff et al. (2002), "Mechanistic Study of Alcohol Oxidation by the $\text{Pd}(\text{OAc})_2/\text{O}_2/\text{DMSO}$ Catalyst System and Implications for the Development of Improved Aerobic Oxidation Catalysts," *J. Am. Chem. Soc.* 124(5):766-767.

Tamaru et al. (1979), "Palladium Catalyzed Oxidations of Secondary Alcohols," *Tetrahedron Letters* 20(16):1401-1404.

ten Brink et al. (2000), "Green, Catalytic Oxidation of Alcohols in Water," *Science* 287:1636-1639.

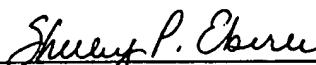
Uozumi et al. (1998), "Cationic Palladium/Boxax Complexes for Catalytic Asymmetric Wacker-Type Cyclization," *J. Org. Chem.* 63(15):5071-5075.

This Information Disclosure Statement is not intended as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any of the above references constitutes prior art to the present application within the meaning of 35 USC § 102.

As applicants have not yet received a first Action on the merits, no fee is required for filing this Information Disclosure Statement. If, however, the PTO finds that for some reason a fee is found to be necessary, our Deposit Account No. 18-0580 may be charged therefor. A **duplicate copy of this paper is enclosed.**

Respectfully submitted,

By:


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INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet 1 of 1

Application Number

10/091,372

Filing Date

March 4, 2002

First Named Inventor

Eric M. FERREIRA et al.

Art Unit

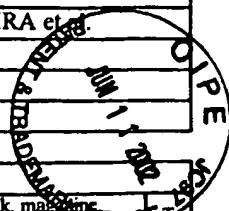
1754

Examiner Name

Unassigned

Attorney Docket Number

1950-0001



OTHER DOCUMENTS — NONPATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), Title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.
<i>LM</i>	AA	Ait-Mohand et al. (1995), "Palladium(II)-Mediated Oxidation of Alcohols Using 1,2-Dichloroethane as Pd(0) Reoxidant," <i>Tetrahedron Letters</i> 36(14):2473-2476.
<i>LM</i>	AB	Blackburn et al. (1977), "Homogeneous Catalytic Oxidation of Secondary Alcohols to Ketones by Molecular Oxygen Under Mild Conditions," <i>J. Chem. Soc. Chem. Commun.</i> , pp. 157-158.
<i>LM</i>	AC	Hashiguchi et al. (1997), "Kinetic Resolution of Racemic Secondary Alcohols by Ru"-Catalyzed Hydrogen Transfer," <i>Angew. Chem. Int. Ed. Engl.</i> 36(3):288-290.
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<i>LM</i>	AE	Nagashima et al. (1981), "Activation of Polyhaloalkanes by Palladium Catalyst. Palladium Catalyzed Oxidation of Alcohols to Carbonyl Compounds with Carbon Tetrachloride," <i>Chemistry Letters</i> , pp. 1171-1172.
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<i>LM</i>	AG	Peterson et al. (1998), "Palladium-Catalyzed Oxidation of Primary and Secondary Allylic and Benzylic Alcohols," <i>J. Org. Chem.</i> 63(10):3185-3189.
<i>LM</i>	AH	Rychnovsky et al. (1996), "Enantioselective Oxidation of Secondary Alcohols Using a Chiral Nitroxyl (N-Oxoammonium Salt) Catalyst," <i>J. Org. Chem.</i> 61(4):1194-1195.
<i>LM</i>	AI	Smidt (1962), "Oxidation of Olefins with Palladium Chloride Catalysts," <i>Chemistry and Industry</i> , pp. 54-61.
<i>LM</i>	AJ	Smidt et al. (1959), "Katalytische Umsetzungen von Olefinen an Platinmetall-Verbindungen," <i>Angew. Chem.</i> 71(5):176-182.
<i>LM</i>	AK	Smidt et al. (1962), "The Oxidation of Olefins with Palladium Chloride Catalysts," <i>Angew. Chem. Internat. Edit. Engl.</i> 1(2):80-88.
<i>LM</i>	AL	Stahl et al. (2001), "Oxygenation of Nitrogen-Coordinated Palladium(0): Synthetic, Structural, and Mechanistic Studies and Implications for Aerobic Oxidation Catalysis," <i>J. Am. Chem. Soc.</i> 123(29):7188-7189.
<i>LM</i>	AM	Steinhoff et al. (2002), "Mechanistic Study of Alcohol Oxidation by the Pd(OAc) ₂ /O ₂ /DMSO Catalyst System and Implications for the Development of Improved Aerobic Oxidation Catalysts," <i>J. Am. Chem. Soc.</i> 124(5):766-767.
<i>LM</i>	AN	Tamaru et al. (1979), "Palladium Catalyzed Oxidations of Secondary Alcohols," <i>Tetrahedron Letters</i> 20(16):1401-1404.
<i>LM</i>	AO	ten Brink et al. (2000), "Green, Catalytic Oxidation of Alcohols in Water," <i>Science</i> 287:1636-1639.
<i>LM</i>	AP	Uozumi et al. (1998), "Cationic Palladium/Boxax Complexes for Catalytic Asymmetric Wacker-Type Cyclization," <i>J. Org. Chem.</i> 63(15):5071-5075.

Examiner Signature	<i>Latika Nagabandi</i>	Date Considered	10/12/06
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